

CLAIMS

1. A method for indicating a feedback mode, comprising:

obtaining by a first device, configuration information, wherein the configuration information is configured to indicate whether the first device supports an optional function of hybrid automatic repeat request (HARQ) feedback; and

sending by the first device, sidelink control information (SCI) to a second device based on the configuration information, wherein the SCI comprises a first type of SCI and a second type of SCI, one of the first type of SCI or the second type of SCI comprises a first field, and the first field is configured to indicate a HARQ feedback mode for data transmission in multicast communication,

wherein when the configuration information indicates that the first device supports the optional function of HARQ feedback, the first type of SCI comprises the first field; and

when the configuration information indicates that the first device does not support the optional function of HARQ feedback, the second type of SCI comprises the first field.

2. The method of claim 1, wherein when the first type of SCI comprises the first field, the first field indicates a format of the second type of SCI.

3. The method of claim 2, wherein different HARQ feedback modes for data transmission in multicast communication associated with the SCI correspond to different formats of the second type of SCI and different values of the first field.

4. The method of claim 2, wherein the first field comprises four values corresponding to four formats of the second type of SCI respectively, and the four formats of the second type of SCI correspond to broadcast communication, unicast communication, multicast communication based on HARQ feedback mode 1, and multicast communication based on HARQ feedback mode 2; or

the first field comprises three values corresponding to three formats of the second type of SCI respectively, and the three formats of the second type of SCI correspond to broadcast communication, multicast communication based on HARQ feedback mode 1, unicast communication, and multicast communication based on HARQ feedback mode 2

respectively.

5. The method of claim 1, wherein the second type of SCI comprises the first field, and the first type of SCI or the second type of SCI comprises a second field, wherein the second field indicates a type of sidelink communication.

6. The method of claim 1, wherein the configuration information is information received by the first device and sent by the access network device, or information preconfigured in the first device.

7. A method for determining a feedback mode, comprising:

receiving, by a second device, sidelink control information (SCI) sent by a first device, wherein the SCI comprises a first type of SCI and a second type of SCI, one of the first type of SCI or the second type of SCI comprises a first field, and the first field is configured to indicate a hybrid automatic repeat request (HARQ) feedback mode for data transmission in multicast communication; and

determining, by the second device, the HARQ feedback mode for data transmission in multicast communication associated with the SCI, based on configuration information and the first field in the SCI, wherein the configuration information is configured to indicate whether the second device supports an optional function of HARQ feedback,

wherein when the configuration information indicates that the first device supports the optional function of HARQ feedback, the first type of SCI comprises the first field; and

when the configuration information indicates that the first device does not support the optional function of HARQ feedback, the second type of SCI comprises the first field.

8. The method of claim 7, wherein when the first type of SCI comprises the first field, the first field indicates a format of the second type of SCI.

9. The method of claim 8, wherein different HARQ feedback modes for data transmission in multicast communication associated with the SCI correspond to different formats of the second type of SCI and different values of the first field.

10. The method of claim 9, wherein

the first field has four values corresponding to four formats of the second type of SCI respectively, and the four formats of the second type of SCI correspond to broadcast

communication, unicast communication, multicast communication based on HARQ feedback mode 1, and multicast communication based on HARQ feedback mode 2; or

the first field has three values corresponding to three formats of the second type of SCI respectively, and the three formats of the second type of SCI correspond to broadcast communication, multicast communication based on HARQ feedback mode 1, unicast communication, and multicast communication based on HARQ feedback mode 2 respectively.

11. The method of claim 9, wherein determining by the second device, the HARQ feedback mode for multicast communication comprises one of:

determining the format of the second type of SCI and the HARQ feedback mode for multicast communication based on the value of the first field in the first type of SCI, wherein the configuration information indicates that the second device supports the optional function of HARQ feedback;

determining the format of the second type of SCI and the HARQ feedback mode for multicast communication based on the first field in the first type of SCI, wherein the configuration information indicates that the second device supports the optional function of HARQ feedback, and a sidelink communication resource pool has time-frequency resources for sending HARQ feedback information; or

determining the HARQ feedback mode for multicast communication based on the first field in the second type of SCI, wherein the configuration information indicates that the second device does not support the optional function of HARQ feedback or the sidelink communication resource pool has no time-frequency resources for sending HARQ feedback information.

12. The method of claim 7, wherein the second type of SCI comprises the first field, and the first type of SCI or the second type of SCI comprises a second field, wherein the second field indicates a type of sidelink communication.

13. The method of claim 7, wherein the configuration information is information received by the second device and sent by the access network device, or information preconfigured in the second device.

14. A first device for indicating a feedback mode, comprising:
a processor; and
a memory for storing instructions executable by the processor;
wherein when the instructions are loaded and executed, the processor is configured to implement the method for indicating a feedback mode according to any one of claims 1 to 6.

15. A second device for indicating a feedback mode, comprising:
a processor; and
a memory for storing instructions executable by the processor;
wherein when the instructions are loaded and executed, the processor is configured to implement the method for indicating a feedback mode according to any one of claims 7 to 13.

16. A non-transitory computer readable storage medium, wherein when instructions stored in the storage medium are executed by a processor, the processor is caused to execute the method according to any one of claims 1 to 6, or the method according to any one of claims 7 to 13.